

CORRES CONTROL
OUTGOING LTR NO

DOE ORDER #

03 RF 01723



03-RF-01723

DIST	LTR	ENC
Berardini, Jacqueline	X	
BRAILS FORD, M D		
FERRERA, D W	X	
FERRI, M S		
FULTON, J C		
GIACOMINI, J		
HALL, L		
MARTINEZ, L A		
PARKER, A M		
POWERS, K		
SCOTT, G K		
SHELTON, D C	X	
SPEARS, M S		
TRICE, K D		
VOORHEIS, G M		

November 17, 2003

Mr Joe Legare
Assistant Manager for
Environment and Infrastructure
DOE, RFFO

Mr Steve Gunderson
Colorado Department of Public Health and Environment
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Denver, CO 80202 - 2466

TRANSMITTAL OF COVER AND REPLACEMENT PAGES FOR THE FY03 FINAL
RSOP NOTIFICATION #04-03 FOR IHSS GROUPS 500-1 & 500-5 - JLB-124-03

COR. CONTROL	X	X
ADMIN RECORD	X	X
WASTE REC. CTR		
TRAFFIC		
PATS/130		
CLASSIFICATION		
UCNI		
UNCLASSIFIED		
CONFIDENTIAL		
SECRET		

Enclosed are covers and replacement pages reflecting the finalization of the RSOP
Notification #04-03 for IHSS Groups 500-1 & 500-5 This RSOP was approved as
"Final" on November 14, 2003 A change was made to the acronym list and also on
page 6 Please make cover and page replacements to your document with the pages
provided herein

If you have any questions, please contact me at extension 5245

AUTHORIZED CLASSIFIER
SIGNATURE
Exemption - CEX-105-01

Robert L. Danis for

Date

J Lane Butler
Manager, Environmental Restoration Programs

IN REPLY TO RFP CC
NO

JLB dm

ACTION ITEM STATUS

☐ PARTIAL/OPEN

Orig and 1 cc - Joe Legare
cc Norma Castaneda

☐ CLOSED

Enclosures
As Stated

LTR APPROVALS

ORIG & TYPIST INITIALS

er Hill Company, L L C
ky Flats Environmental Technology Site, 10808 Hwy 93 Unit B, Golden CO 80403-8200 • 303-966-7000



ADMIN RECORD

IA-A-001886

1/5



**Environmental Restoration
RFCA Standard Operating Protocol
For Routine Soil Remediation
FY04 Notification #04-03
IHSS Groups 500-1 and 500-5**



November 2003

**Environmental Restoration
RFCA Standard Operating Protocol
For Routine Soil Remediation
FY04 Notification #04-03
IHSS Groups 500-1 and 500-5**

Approval received from the Colorado Department of Public Health and Environment

November 14, 2003

Approval letter is contained in the Administrative Record

November 2003

ACRONYMS

AL	action level
BMP	best management practice
COC	contaminant of concern
cy	cubic yard
D&D	decontamination and decommissioning
DOE	U S Department of Energy
dl	detection limit
EDDIE	Environmental Data Dynamic Information Exchange
ER	Environmental Restoration
ER RSOP	Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation
FY	Fiscal Year
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
nCi/g	nanocuries per gram
NPWL	New Process Waste Lines
NFA	No Further Action
PA	Protected Area
PAC	Potential Area of Concern
PCB	polychlorinated biphenyl
PDF	Portable Document Format
PCOC	potential contaminant of concern
POC	Point of Compliance
POE	Point of Evaluation
RAO	remedial action objective
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RSOP	RFCA Standard Operating Protocol
SSRS	Subsurface Soil Risk Screen
SWD	Soil-Water Database
UBC	Under Building Contamination
VOC	volatile organic compound
WRW	wildlife refuge worker

- Remove the two PAC 500-904 transformer pads. The concrete pads will be recycled in accordance with the RSOP for Recycling Concrete (DOE 1999) or disposed at an appropriate facility based on waste characterization results
- Remove soil with non-radionuclide or uranium contaminant concentrations greater than the RFCA WRW ALs to a depth of 6 inches. If soil contamination greater than the ALs extends below 6 inches in depth, perform the SSRS to evaluate the need for further accelerated action
- Remove soil with plutonium-239/240 or americium-241 concentrations greater than the RFCA WRW AL to a depth of 3 feet, or to less than the applicable AL, whichever comes first. If concentrations are greater than 3 nanocuries per gram (nCi/g) between 3 and 6 feet, characterize and remediate pursuant to RFCA Attachment 5 (DOE et al 2003). If plutonium-239/240 or americium-241 is present at activities greater than the RFCA WRW AL but less than 3 nCi/g below 3 feet, conduct an SSRS
- Consult with regulatory agencies if contaminant concentrations are greater than the ecological ALs but lower than the WRW ALs
- If contaminated soil is removed, collect confirmation soil samples in accordance with the IASAP (DOE 2001)

Valve Vaults 11, 12, and 13 and the associated process waste lines connecting these valve vaults will be closed under the Decontamination and Decommissioning (D&D) Program in accordance with the Closure Description Document of the Partial Closure of Unit 374 3 – 700 and 800 Area Process Waste Transfer System (DOE 2003d). Removal of the Building 223 and 549 slabs located in IHSS 500-117 1 will be conducted under the D&D Program in accordance with the RSOP for Facility Disposition (DOE 2000b).

It is anticipated that after remediation there may be areas with concentrations of metals, radionuclides, and organics greater than background means plus two standard deviations or detection limits (DLs), but below RFCA ALs.

2.5 Stewardship Evaluation

This notification covers IHSS 300-186, IHSS 500-117 1, IHSS 500-197, and PAC 500-904. No UBC sites are included in this notification. Based on the PCOCs (Table 1 and Section 2.1) and the ER RSOP (DOE 2003a), it is anticipated that all contamination above RFCA ALs will be remediated. Figure 2 shows the potential remediation areas.

If remediation is conducted, an additional stewardship evaluation will be performed during remediation using the consultative process and documented in a closeout report for IHSS Groups 500-1 and 500-5. A new map of residual contamination will be generated after remediation. The following sections present the stewardship evaluation.

2.5.1 Proximity to Other Contaminant Sources

IHSS Groups 500-1 and 500-5 are in the RFETS IA and are located close to other contaminant sources. IHSS Group 300-3, which includes UBC 371, and IHSS Group